



TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2019-03-05-11 Date: 20-12-18
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Development of SWD Drains in Ward No. 06 Byatarayanapura Sub Division.
Agency : Sri.Raghu A.N, No. F-17, D Block, Fortune Classic Apartment, 4th Cross, Canara Bank Layout, Vidyanarayapura (P), Bangalore-560 097.
Customer's Reference : BBMP/EE/BTP/WO/192/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-12-18
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6
Date of test : 18-12-18
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	—
2	Fineness by Air permeability method (m ² /kg, Min)	348.6	225m ² /kg, Min
3	Density (gm/cc)	3.15	—
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Authorized Signatory
Quality Manager



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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2019-03-05-11 Date: 15-01-19

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Development of SWD Drains in Ward No. 06 Byatarayanapura Sub Division.

Agency : Sri.Raghu A.N, No. F-17, D Block, Fortune Classic Apartment, 4th Cross, Canara Bank Layout, Vidyanarayapura (P), Bangalore-560 097.

Customer's Reference : BBMP/EE/BTP/WO/192/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-12-18

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 18-12-18

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	58.5N/mm ²	Not less than 53 N/mm ²

Note:

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AS per ward no 6
Sri. Raghu A.N

ಮಾಹಿತಿ ಕಾರ್ಯದರ್ಶಿ ಅಧಿಕಾರಿಗಳು
ಬೃಹದ್ವಿಭಾಗದ ಉಪ ನಿರ್ದೇಶಕರು
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Authorized Signatory
Quality Manager



**TEST REPORT ON COARSE AGGREGATES**

Lab ID : CP-2019-03-05-11 **Date:** 20-12-18

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Development of SWD Drains in Ward No. 06 Byatarayanapura Sub Division.

Agency : Sri.Raghu A.N, No. F-17, D Block, Fortune Classic Apartment, 4th Cross, Canara Bank Layout, Vidyanarayapura (P), Bangalore-560 097.

Customer's Reference : BBMP/EE/BTP/WO/192/2018-19

Source of Sample : Sample supplied by Agency

Sample condition : Satisfactory

Date of Receipt : 17-12-18

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 17-12-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:**Total weight taken** : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---



TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-03-05-11

Date: 20-12-18

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	—
4	Bulk Density(Loose) (Kg/l)	1.42	—
5	Bulk Density(Compacted) (Kg/l)	1.48	—
6	Water Absorption(%)	0.22	—

Note:

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ಸಹಕಾರಿ ಪರೀಕ್ಷಾಕಾರ್ಯಾಲಯದ ಪ್ರತಿನಿಧಿ
ಬ್ಯಾಟಲಾಯನ್‌ನವರ ಉಪ ನಿರ್ದೇಶಕ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24


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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-03-05-11 Date: 19-12-18
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Development of SWD Drains in Ward No. 06 Byatarayanapura Sub Division.
Agency : Sri.Raghu A.N, No. F-17, D Block, Fortune Classic Apartment, 4th Cross, Canara Bank Layout, Vidyananyapura (P), Bangalore-560 097.
Customer Reference : BBMP/EE/BTP/WO/192/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-12-18
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 17-12-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2635	2880	57.6	42.4	25-55
4	4.75 mm	1780	4660	93.2	6.8	0-10
5	Pan	340	5000	100	0	-



TEST REPORT ON COARSE AGGREGATES

Lab ID

:

CP-2019-03-05-11

Date: 19-12-18

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.6	
3	Specific Gravity	2.67	—
4	Bulk Density(Loose) (Kg/l)	1.53	—
5	Bulk Density(Compacted) (Kg/l)	1.56	—
6	Water Absorption(%)	0.22	—
7	Aggregate crushing Value(%)	24.2	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	CP-2019-03-05-11	Date: 19-12-18
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Development of SWD Drains in Ward No. 06 Byatarayanapura Sub Division.	
Agency	:	Sri.Raghu A.N, No. F-17, D Block, Fortune Classic Apartment, 4th Cross, Canara Bank Layout, Vidyaranyapura (P), Bangalore-560 097.	
Customer's Reference	:	BBMP/EE/BTP/WO/192/2018-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	17-12-18	
Sample Type	:	Fine Aggregate	
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption	
Date of test	:	17-12-18	

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-03-05-11

Date: 19-12-18

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	—
2	Specific Gravity	2.59	—
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

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TEST RESULTS OF STEEL

Lab ID : CP-2019-03-05-11 Date: 22-12-18

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Development of SWD Drains in Ward No. 06 Byatarayanapura Sub Division.

Agency : Sri.Raghu A.N, No. F-17, D Block, Fortune Classic Apartment, 4th Cross, Canara Bank Layout, Vidyanarayapura (P), Bangalore-560 097.

Customer's Reference : BBMP/EE/BTP/WO/192/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-12-18

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 21-12-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe550	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe550	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe550	12	0.887	544	668	20.0%	Satisfactory	Satisfactory

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2019-03-05-11 Date: 28-12-18

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Development of SWD Drains in Ward No. 06 Byatarayanapura Sub Division.

Agency : Sri.Raghu A.N, No. F-17, D Block, Fortune Classic Apartment, 4th Cross, Canara Bank Layout, Vidyanarayapura (P), Bangalore-560 097.

Customer's Reference : BBMP/EE/BTP/WO/192/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-12-18

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 24/12/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	200.51	250.48	3.116	31570	180.9	5.7	5.3	6.7
2	Cover Slab-2	200.49	250.52	3.122	31564	182.3	5.8	5.4	6.7
3	Cover Slab-3	200.50	250.51	3.118	31567	181.5	5.7	5.3	6.7

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28.12.2018
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ಜ್ಯೋತಿರಾಚಾರ್ಜಿತರ ಉಪ ನಿರ್ದೇಶನ
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TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Lab ID : CP-2019-03-05-11 Date: 03-01-19

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Development of SWD Drains in Ward No. 06 Byatarayanapura Sub Division.

Agency : Sri.Raghu A.N, No. F-17, D Block, Fortune Classic Apartment, 4th Cross, Canara Bank Layout, Vidyanarayapura (P), Bangalore-560 097.

Customer's Reference : BBMP/EE/BTP/WO/192/2018-19

Source of sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-12-18

Identification Mark on Brick : Wire Cut Brick

Reference to BIS codes : IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks-Specification
IS 3495 (Part 1 to 3) : 1992(RA 2011)
Method of Tests Burnt Clay Building Bricks
Part 1:Determination of Compressive Strength, (Cl 4.2.3)
Part 2:Determination of Water Absorption,(Cl 4.1.3)
Part 3: Determination of Efflorescence, (Cl 4)

Date of test : 27-12-18

COMPRESSIVE STRENGTH

Sl.No.	Length (mm)	Breadth (mm)	Area (mm ²)	Failure Load (KN)	Compressive strength of individual bricks (N/mm ²)	Acceptability as per IS 1077:1992, Clause 7.1
1	228.13	109.98	25090	206.7	8.2	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	228.98	108.62	24872	197.6	7.9	
3	231.01	107.99	24947	201.3	8.1	
4	230.11	107.54	24746	199.5	8.1	
5	228.16	106.98	24409	194.6	8.0	
Average of 5 bricks					8.1	

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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R. M. L. P.

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Lab ID

CP-2019-03-05-11

Date: 03-01-19

WATER ABSORPTION:

WATER ABSORPTION				Acceptability as per IS 1077:1992, Clause 7.2
Sl.No.	Dry Weight	Wet Weight	Water Absorption(%)	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
1	2.975	3.265	9.7	
2	2.868	3.176	10.7	
3	2.906	3.196	10.0	
4	2.976	3.275	10.0	
5	2.875	3.218	11.9	
Average Water Absorption(%)			10.5	

EFFLORESCENCE:

EFFLORESCENCE:					Acceptability as per IS 1077:1992, Clause 7.3
Sl.No.	Length (mm)	Breadth (mm)	Area (mm ²)	Efflorescence	
1	229.18	108.98	24976	Slight	The efflorescence shall not be more than "moderate" upto class 12.5 and "slight" for higher classes.
2	228.98	109.18	25000	Moderate	
3	228.18	108.39	24732	Slight	
4	230.19	107.98	24856	Moderate	
5	228.13	109.19	24910	Slight	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4610	4520 to 4680 mm
2	Width	2185	2160 to 2240 mm
3	Height	1390	1360 to 1440 mm

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-03-05-11 Date: 31/12/2018

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Development of SWD Drains in Ward No. 06 Byatarayanapura Sub Division.

Agency : Sri.Raghu A.N, No. F-17, D Block, Fortune Classic Apartment, 4th Cross, Canara Bank Layout, Vidyanarayapura (P), Bangalore-560 097.

Customer's Reference : BBMP/EE/BTP/WO/192/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-12-18

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	24/12/2018	31/12/2018	150.09 X	22785	8.195	292.1	12.8	12.8
					151.81 X					
					150.50					
2	PCC	M15	24/12/2018	31/12/2018	151.17 X	22949	8.336	295.2	12.9	
					151.81 X					
					149.74					
3	PCC	M15	24/12/2018	31/12/2018	150.47 X	22654	8.104	285.1	12.6	
					150.56 X					
					151.66					

Note:

The results pertain to the samples received and tested.
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(Signature)
 ಸಾರ್ವಜನಿಕ ಕಾರ್ಯದರ್ಶಿ, ಬೆಂಗಳೂರು
 ಮುಖ್ಯಮಂತ್ರಿ ಕಛೇರಿ
 ಬಿ.ಬಿ.ಎಂ.ಸಿ., ಬೆಂಗಳೂರು-24

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 ****End of Report****



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 R KARTHIK RECHAN
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 Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-03-05-11 Date: 21/01/2019

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Development of SWD Drains in Ward No. 06 Byatarayanapura Sub Division.

Agency : Sri.Raghu A.N, No. F-17, D Block, Fortune Classic Apartment, 4th Cross, Canara Bank Layout, Vidyanarayapura (P), Bangalore-560 097.

Customer's Reference : BBMP/EE/BTP/WO/192/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-12-18

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	24/12/2018	21/01/2019	151.57 X	22905	8.473	402.0	17.5	17.5
					151.12 X					
					150.02					
2	PCC	M15	24/12/2018	21/01/2019	149.65 X	22345	8.979	385.0	17.2	
					149.31 X					
					149.63					
3	PCC	M15	24/12/2018	21/01/2019	149.81 X	22401	8.279	393.9	17.6	
					149.53 X					
					149.58					

Note:

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 Page 1/1
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 Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-03-05-11 **Date:** 04/01/2019

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Development of SWD Drains in Ward No. 06 Byatarayanapura Sub Division.

Agency : Sri.Raghu A.N, No. F-17, D Block, Fortune Classic Apartment, 4th Cross, Canara Bank Layout, Vidyaranyapura (P), Bangalore-560 097.

Customer's Reference : BBMP/EE/BTP/WO/192/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-12-18

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Slab Concrete	M25	27/12/2018	03/01/2019	150.91 X	22916	8.177	545.6	23.8	23.0
					151.85 X					
					149.63					
2	Drain Bottom Slab Concrete	M25	27/12/2018	03/01/2019	150.73 X	22525	8.926	510.9	22.7	
					149.44 X					
					149.05					
3	Drain Bottom Slab Concrete	M25	27/12/2018	03/01/2019	151.89 X	22709	8.106	510.9	22.5	
					149.51 X					
					149.20					

Note:

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 ಮೃ.ಕರ್ತಿಕ ರೇಚನ್ ಅವರ ಮುಖ
 ಬಿ.ಬಿ.ಎಂ.ಎ., ಬೆಂಗಳೂರು-14

Page 1/1

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-03-05-11 Date: 24/01/2019

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Development of SWD Drains in Ward No. 06 Byatarayanapura Sub Division.

Agency : Sri.Raghu A.N, No. F-17, D Block, Fortune Classic Apartment, 4th Cross, Canara Bank Layout, Vidyanarayapura (P), Bangalore-560 097.

Customer's Reference : BBMP/EE/BTP/WO/192/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-12-18

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

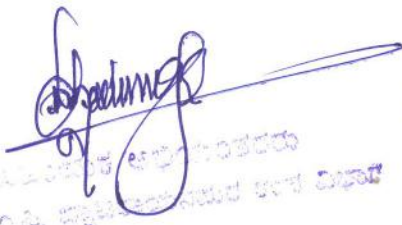
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Slab Concrete	M25	27/12/2018	24/01/2019	150.67 X	22806	8.143	617.7	27.1	27.4
					151.37 X					
					149.14					
2	Drain Bottom Slab Concrete	M25	27/12/2018	24/01/2019	151.53 X	22999	8.683	608.0	26.4	
					151.78 X					
					149.55					
3	Drain Bottom Slab Concrete	M25	27/12/2018	24/01/2019	149.31 X	22321	8.566	643.0	28.8	
					149.50 X					
					151.17					

Note:

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W.S.D

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ಪ್ರಮಾಣೀಕರಿಸಿದ ಮತ್ತು ಮುಖ್ಯ
ಒ.ಬಿ.ಎಸ್.ಎಂ.ಎಸ್-24
Page 1/1
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R. Karthik Rechan
Authorized Signatory
Quality Manager





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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-03-05-11 **Date:** 04/01/2019

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Development of SWD Drains in Ward No. 06 Byatarayanapura Sub Division.

Agency : Sri.Raghu A.N, No. F-17, D Block, Fortune Classic Apartment, 4th Cross, Canara Bank Layout, Vidyaranyapura (P), Bangalore-560 097.

Customer's Reference : BBMP/EE/BTP/WO/192/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-12-18

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Bottom Slab Concrete	M25	27/12/2018	03/01/2019	150.00 X 151.18 X 149.51	22677	8.177	523.3	23.1	22.7
2	Drain Bottom Slab Concrete	M25	27/12/2018	03/01/2019	151.71 X 151.63 X 150.65	23005	8.926	520.3	22.6	
3	Drain Bottom Slab Concrete	M25	27/12/2018	03/01/2019	151.28 X 151.42 X 150.72	22907	8.106	512.8	22.4	

Note:

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[Signature]

[Signature]
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Page 1/1
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-03-05-11 **Date:** 24/01/2019

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Development of SWD Drains in Ward No. 06 Byatarayanapura Sub Division.

Agency : Sri.Raghu A.N, No. F-17, D Block, Fortune Classic Apartment, 4th Cross, Canara Bank Layout, Vidyanarayapura (P), Bangalore-560 097.

Customer's Reference : BBMP/EE/BTP/WO/192/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-12-18

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Slab Concrete	M25	27/12/2018	24/01/2019	151.52 X	23026	8.143	638.4	27.7	27.5
					151.97 X					
					149.28					
2	Drain Bottom Slab Concrete	M25	27/12/2018	24/01/2019	151.89 X	22968	8.683	608.3	26.5	
					151.22 X					
					150.22					
3	Drain Bottom Slab Concrete	M25	27/12/2018	24/01/2019	150.82 X	22810	8.566	648.2	28.4	
					151.24 X					
					149.32					

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Page 1/1
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(Signature)
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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BANGALORE

**TEST REPORT OF CEMENT CONCRETE CUBES**

Lab ID : CP-2019-03-05-11 **Date:** 04/01/2019

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Development of SWD Drains in Ward No. 06 Byatarayanapura Sub Division.

Agency : Sri.Raghu A.N, No. F-17, D Block, Fortune Classic Apartment, 4th Cross, Canara Bank Layout, Vidyanayapura (P), Bangalore-560 097.

Customer's Reference : BBMP/EE/BTP/WO/192/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-12-18

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/01/2019

Date of Test: 20/01/2019										
Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Slab Concrete	M25	27/12/2018	03/01/2019	149.65 X	22733	8.177	542.8	23.9	23.1
					151.90 X					
					150.08					
2	Drain Bottom Slab Concrete	M25	27/12/2018	03/01/2019	149.84 X	22328	8.926	501.4	22.5	
					149.01 X					
					150.74					
3	Drain Bottom Slab Concrete	M25	27/12/2018	03/01/2019	151.06 X	22557	8.106	517.8	23.0	
					149.32 X					
					150.21					

Note:

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SPECIAL TEST REPORT
BY: R. KARTHIK RECHAN
20.01.2019, 10:00:00-24

Page 1/1

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R. KARTHIK RECHAN
Authorized Signatory
Quality Manager



Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2019-03-05-11	Date: 24/01/2019
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Development of SWD Drains in Ward No. 06 Byatarayanapura Sub Division.	
Agency	:	Sri.Raghu A.N, No. F-17, D Block, Fortune Classic Apartment, 4th Cross, Canara Bank Layout, Vidyanarayapura (P), Bangalore-560 097.	
Customer's Reference	:	BBMP/EE/BTP/WO/192/2018-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	29-12-18	
Customer ID	:	Drain Bottom Slab Concrete	
Sample Type /Size	:	150X150X150 mm	
Sample grade/Age	:	M25 / 28 Days Compressive Strength	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5	

Date of test : 24/01/2019

Date of test : 24/01/2019										
Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Slab Concrete	M25	27/12/2018	24/01/2019	151.09 X	22644	8.143	622.9	27.5	27.3
					149.87 X					
					150.77					
2	Drain Bottom Slab Concrete	M25	27/12/2018	24/01/2019	150.26 X	22590	8.683	595.1	26.3	
					150.34 X					
					149.57					
3	Drain Bottom Slab Concrete	M25	27/12/2018	24/01/2019	150.07 X	22529	8.566	633.9	28.1	
					150.13 X					
					150.95					

Note:

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Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-03-05-11 **Date:** 04/01/2019

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Development of SWD Drains in Ward No. 06 Byatarayanapura Sub Division.

Agency : Sri.Raghu A.N, No. F-17, D Block, Fortune Classic Apartment, 4th Cross, Canara Bank Layout, Vidyananyapura (P), Bangalore-560 097.

Customer's Reference : BBMP/EE/BTP/WO/192/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-12-18

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/01/2019

Date of test										
Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Slab Concrete	M25	27/12/2018	03/01/2019	150.89 X	22522	8.177	519.0	23.0	22.5
					149.27 X					
					151.37					
2	Drain Bottom Slab Concrete	M25	27/12/2018	03/01/2019	151.22 X	22969	8.926	508.1	22.1	
					151.89 X					
					151.18					
3	Drain Bottom Slab Concrete	M25	27/12/2018	03/01/2019	151.44 X	22861	8.106	513.0	22.4	
					150.96 X					
					149.44					

Note:

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(Signature)
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 ಬೃಹತ್ ನಗರ ಪಾಲಿಕೆ
 ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24
 Page 1/1
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(Signature)
R KARTHIK RECHAN
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 Quality Manager

(Circular Stamp)
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-03-05-11 Date: 24/01/2019

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Development of SWD Drains in Ward No. 06 Byatarayanapura Sub Division.

Agency : Sri.Raghu A.N, No. F-17, D Block, Fortune Classic Apartment, 4th Cross, Canara Bank Layout, Vidyanarayapura (P), Bangalore-560 097.

Customer's Reference : BBMP/EE/BTP/WO/192/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-12-18

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

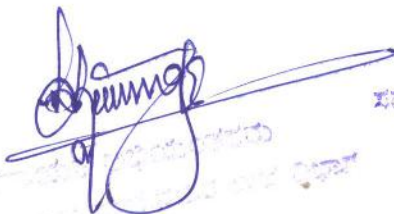
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Slab Concrete	M25	27/12/2018	24/01/2019	149.26 X 151.81 X 150.57	22660	8.143	614.8	27.1	27.4
2	Drain Bottom Slab Concrete	M25	27/12/2018	24/01/2019	151.21 X 149.63 X 150.81	22626	8.683	595.8	26.3	
3	Drain Bottom Slab Concrete	M25	27/12/2018	24/01/2019	149.32 X 151.08 X 149.77	22559	8.566	649.8	28.8	

Note:

The results pertain to the samples received and tested.
 All information furnished by Customer/Representative
 Any correction in the report will make this report invalid
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 Samples will be disposed after 90 days from the date of issue of test certificate



2005/24

ಪ್ರಾಜೆಕ್ಟ್ ಮೇಲ್ವಿಚಾರಣೆ ಮತ್ತು ಮೇಲ್ವಿಚಾರಣೆ
 ಬ್ಯಾಟರಾಯನಪುರ ಸಬ್ ಡಿವಿಷನ್
 ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24
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 ****End of Report****

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R. KARTHIK RECHAN
 Authorized Signatory
 Quality Manager

